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An adaptive survivability admission control algorithm using backup path for highspeed networks

Chi-Chun Lo, Bin-Wen Chuang

November 2003 International Journal of Network Management, Volume 13 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(144.92 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose an adaptive survivability admission control algorithm using a backup path for high-speed networks. For each call request, the proposed algorithm selects a combination of working path and backup path. Two BP selection methods, mincost and min-expectation, are suggested. Computational experiments indicate that the proposed algorithm significantly reduces the consumption of backup capacity while still maintaining 100% survivability upon a single link failure and near 80% ...

2 Economics of intellectual property protection for software: the proper role for





copyright

Frederick R. Warren-Boulton, Kenneth C. Baseman, Glenn A. Woroch June 1995 StandardView, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(173.41 KB) Additional Information: full citation, references, citings, index terms

3 Using ISO 17799: 2005 information security management: a STOPE view with six sigma approach



Mohammad Saad Saleh, Abdullah Alrabiah, Saad Haj Bakry January 2007 International Journal of Network Management, Volume 17 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(110.51 KB) Additional Information: full citation, abstract, references, index terms

This paper is concerned with supporting the use of ISO 17799: 2005 information security management standard for the purpose of providing a 'common safe environment' for information services. The paper introduces a STOPE view of the standard, integrating its parts and protection measures around the basic domains of 'strategy, technology, organization, people, and environment'. The paper also presents an approach for the application of the standard, considering the STOPE view, in a way that emphas ...

Emerging applications: DRM: doesn't really mean digital copyright management L. Jean Camp



November 2002 Proceedings of the 9th ACM conference on Computer and communications security CCS '02

Publisher: ACM Press

Full text available: pdf(258.91 KB)

Additional Information: full citation, abstract, references, citings, index terms .

Copyright is a legal system embedded in a larger technological system. In order to examine the functions of copyright it is critical to examine the larger technological context of copyright: analog media and printed paper in particular. The copyright system includes both the explicit mechanisms implemented by law and the implicit mechanisms resulting from the technologically determinant features of paper and print. In order to prevent confusion between the legal, technical, and economic elements ...

Keywords: DRM, DeCSS, copyright, design for values, ethics, fair use, intellectual property, science and technology studies

Architechture: Towards an open, trusted digital rights management platform



Andrew Cooper, Andrew Martin

October 2006 Proceedings of the ACM workshop on Digital rights management DRM

Publisher: ACM Press

Full text available: pdf(417.51 KB) Additional Information: full citation, abstract, references, index terms

Trusted computing has received criticism from those who fear it will be used by influential market forces to exert power over the software used on con sumer platforms. This paper describes an open architecture for digital rights management (DRM) enforcement on trusted computing platforms that empowers the consumer to select their operatingsystem and applications, including open-source options, without weakening the strength of the security functions. A key component in the architecture is a secu ...

Keywords: DRM, digital rights management, mandatory access controls, trusted computing, virtual machines

Crypto technology: Privacy-enhanced superdistribution of layered content with



trusted access control

Daniel J. T. Chong, Robert H. Deng

October 2006 Proceedings of the ACM workshop on Digital rights management DRM '06

Publisher: ACM Press

Full text available: pdf(226.77 KB) Additional Information: full citation, abstract, references, index terms

Traditional superdistribution citemori: superdistribution approaches do not address consumer privacy issues and also do not reliably prevent the malicious consumer from indiscriminately copying and redistributing the decryption keys or the decrypted content. The layered nature of common digital content can also be exploited to efficiently provide the consumer with choices over the quality of the content, allowing him/her to pay less for lower quality consumption and vice versa. This paper ...

Keywords: DRM, access control, copyrights, digital distribution, licensing, privacy, trusted computing, usage rights

Panel: which access control technique will provide the greatest overall benefit





Timothy Fraser, David Ferraiolo, Mikel L. Matthews, Casey Schaufler, Stephen Smalley, Robert Watson

May 2001 Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01

Publisher: ACM Press

Full text available: pdf(229.63 KB) Additional Information: full citation, abstract, references, index terms

The question before the panel: Considering all factors (for example: quality of protection, performance, compatibility, ease of use), which operating system access control technique will provide the greatest overall benefit to users?

8 Secure and selective dissemination of XML documents



Elisa Bertino, Elena Ferrari

August 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5
Issue 3

Publisher: ACM Press

Full text available: pdf(678.34 KB)

Additional Information: full citation, abstract, references, citings, index terms

XML (eXtensible Markup Language) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

Keywords: Access control, XML, secure distribution

9 Copyrights and access-rights: How DRM-based content delivery systems disrupt





<u>expectations of "personal use"</u>
Deirdre K. Mulligan, John Han, Aaron J. Burstein

October 2003 Proceedings of the 3rd ACM workshop on Digital rights management DRM '03

Publisher: ACM Press

Full text available: pdf(416.68 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

We set out to examine whether current, DRM-based online offerings of music and movies accord with consumers' current expectations regarding the personal use of copyrighted works by studying the behavior of six music, and two film online distribution services. We find that, for the most part, the services examined do not accord with expectations of personal use. The DRM-based services studied restrict personal use in a manner inconsistent with the norms and expectations governing the purchase and ...

Keywords: access control, content distribution, copyright, digital rights management, fair use, personal use, privacy

10 Flexible control of downloaded executable content



Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2

Issue 2 **Publisher:** ACM Press

Full text available: pdf(297.79 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

We present a security architecture that enables system and application a ccess control

requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

Keywords: access control models, authentication, autorization machanisms, collaborative systems, role-based access control

11 Summarization and question answering: Using sentence-selection heuristics to rank





text segments in TXTRACTOR

Daniel McDonald, Hsinchun Chen

July 2002 Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02

Publisher: ACM Press

Full text available: pdf(217.21 KB)

Additional Information: full citation, abstract, references, citings, index terms

TXTRACTOR is a tool that uses established sentence-selection heuristics to rank text segments, producing summaries that contain a user-defined number of sentences. The purpose of identifying text segments is to maximize topic diversity, which is an adaptation of the Maximal Marginal Relevance criterion used by Carbonell and Goldstein [5]. Sentence selection heuristics are then used to rank the segments. We hypothesize that ranking text segments via traditional sentence-selection heuristics produ ...

Keywords: information retrieval, text extraction, text segmentation, text summarization

12 Hardware spotlight; focus on blue secure intrusion protection system Gilbert Held



September 2005 International Journal of Network Management, Volume 15 Issue 5 Publisher: John Wiley & Sons, Inc.

Full text available: pdf(237.71 KB) Additional Information: full citation, index terms

13 Broadcast and on-line cultural heritage: Copyright protection and management and a





web based library for digital images of the Hellenic cultural heritage

Dimitris K. Tsolis, George K. Tsolis, Emmanouil G. Karatzas, Theodore S. Papatheodo rou November 2001 Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage VAST '01

Publisher: ACM Press

Full text available: pdf(358.69 KB) Additional Information: full citation, abstract, references, index terms

The main issue addressed in this paper is the design and implementation of an Advanced Digital Image Repository, which offers specialized services and a Dedicated User Interface for the protection and management of the Intellectual Property Rights of digitized material. In addition, another main research area of this contribution is the implementation of a Web Based Library, supported by advanced technologies, for the proper presentation of the digital cultural content. The work described in thi ...

Keywords: copyright protection, databases, digital web archives, information systems, java applets, watermarking



Posters: Protection methods against IP packet attacks



Steve Wood, Gordon W. Romney

October 2004 Proceedings of the 5th conference on Information technology education **CITC5 '04**

Publisher: ACM Press

Full text available: mpdf(77.61 KB) Additional Information: full citation, abstract, index terms

Attackers most frequently use TCP and UDP vulnerabilities in various probing and spoofing attacks. TECP and UDP are the most common data fields in Internet IP packets, but unfortunately these segments contain known vulnerabilities. There are, however, protection devices available in the forms of firewalls, intrusion detection systems (IDS), and intrusion prevention systems (IPS) that can help filter these attack packets, or alert users when an attack is happening. There are many different typ ...

Keywords: TCP vulnerabilities, UDP vulnerabilities, access control list, firewalls, intrusion detection systems, intrusion prevention systems, packet inspection

15 Business and legal issues: Consumers, fans, and control: what the games industry





can teach Hollywood about DRM

Susan Landau, Renee Stratulate, Doug Twilleager

October 2006 Proceedings of the ACM workshop on Digital rights management DRM

Publisher: ACM Press

Full text available: pdf(147.98 KB) Additional Information: full citation, abstract, references, index terms

Through legislation and technology the film industry has been seeking to fully control usage of the bits it creates; their model is "restrictive" digital-rights management (DRM) that only allows the user to view the film rather than copy, edit, or create new content. Meanwhile, the experience that the Internet generation has of interacting with, rather than consuming, content, could be the basis for a new business for Hollywood: films that enable users to interact directly by putting themselves ...

Keywords: digital rights management, economics, films, games, movies

16 A key distribution method for object-based protection



Warwick Ford, Michael J. Wiener

November 1994 Proceedings of the 2nd ACM Conference on Computer and communications security CCS '94

Publisher: ACM Press

Full text available: pdf(501.57 KB) Additional Information: full citation, abstract, references, index terms

In any scheme for protecting the confidentiality of data, selecting a key and encrypting the data is the easy part. The difficult part is controlling access to decryption keys. This becomes particularly significant with object-based protection, that is protection of an object, such as a file or a message, regardless of where the object is currently being stored or transferred within a distributed environment. An example of object-based protection is traditional electronic m ...

17 Evaluation and testing of internet firewalls

Khalid Al-Tawil, Ibrahim A. Al-Kaltham

May 1999 International Journal of Network Management, Volume 9 Issue 3

Publisher: John Wiley & Sons, Inc.

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(587.62 KB)

In this article we propose a testing methodology for evaluating Internet firewalls and apply it to compare two popular firewalls. Copyright © 1999 John Wiley & Sons, Ltd.

18 Protecting user interfaces through copyright: the debate



P. Samuelson

March 1989 ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Human factors in computing systems: Wings for the mind CHI '89, Volume 20 Issue SI

Publisher: ACM Press

Full text available: pdf(840.13 KB) Additional Information: full citation, abstract, citings, index terms

This paper will provide an overview of the legal controversy about the extent of copyright protection that is appropriate for software user interfaces. The controversy reflects different views of how traditional principles of copyright law should be applied to software. After a brief introduction to copyright principles, the paper will set forth an argument for maximal copyright protection for software user interfaces, and then an argument for minimal copyright protection for user interface ...

Copyright law and electronic compilations of data



Pamela Samuelson

February 1992 Communications of the ACM, Volume 35 Issue 2

Publisher: ACM Press

Full text available: mpdf(4.85 MB)

Additional Information: full citation, citings, index terms

²⁰ The proposed new Computing Reviews classification scheme



Anthony Ralston

July 1981 Communications of the ACM, Volume 24 Issue 7

Publisher: ACM Press

Full text available: pdf(972.02

Additional Information: full citation, citings, index terms

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IET CNF

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Proceeding

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L2	1	communication adj control adj circuit.clm. and copyright adj protection.clm.	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2007/08/03 01:13
L3	1133	external adj connection adj terminal.clm.	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2007/08/03 01:14
L4	1	external adj connection adj terminal.clm. and selection adj control adj unit.clm.	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2007/08/03 01:13
L5	2	external adj connection adj terminal.clm. and stream adj signal.clm.	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2007/08/03 01:14
S3	7	takeshi adj saito.in.	US-PGPUB; USPAT; EPO; IBM_TDB	OR .	ON .	2007/08/03 01:11
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S5	1	"20040168062"	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2007/02/07 14:44
S6	2	("6101182" "6826690").pn.	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2007/02/07 14:46
S7	811	kabushiki adj kaisha adj toshiba. asn. and saito.in.	US-PGPUB; USPAT; .EPO; IBM_TDB	OR	ON	2007/02/07 14:46
S8	107	kabushiki adj kaisha adj toshiba. asn. and saito.in. and takeshi.in.	US-PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2007/02/07 14:47
S9	3	("6665303").URPN.	USPAT	OR	ON	2007/02/07 17:28
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S11	1518	lsi.ab.	USPAT	OR	ON	2007/02/07 17:28
S12	955	lsi.clm.	USPAT	OR	ON	2007/02/07 17:29
S13	4	lsi.clm. and ieee\$.clm.	USPAT	OR	ON	2007/02/07 17:29
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S15		("4797883" "5694334" "5856930" "5937138" "5943102" "6160844" "6560282" "6804402").PN. OR ("7065141").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 17:55
S16	18	("4757534" "5063596" "5237616" "5291554" "5319705" "5392351" "5400403" "5586186" "5615264").PN. OR ("5818933"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/08 15:20
S17	0	("6888477").URPN.	USPAT	OR '	ON	2007/02/08 15:27
S18	15	("3394352" "3913093" "5526397" "5657015" "5796829" "5818933" "5838927" "5848134" "5949876" "5991795" "6122290" "6247050" "6407680" "6593860").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/08 18:35
S19	104	stream\$.clm. and copyright.clm.	US-PGPUB; USPAT; USOCR	OR .	ON	2007/02/08 18:35
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